

1: Zentralbl Veterinarmed A. 1989 Feb;36(2):110-4. Links

**A preliminary study on the use of betaine as a cryoprotective agent in deep freezing of stallion semen.**

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In a preliminary experiment, betaine was added in concentrations ranging from 0 to 3.0 percent to stallion semen diluted with 4% glycerol extender. Motility of frozen-thawed semen was better in the extenders with high betaine concentration than in those of low concentration or the control. In a subsequent experiment, betaine was added to extended semen from five stallions to make a 2.5% betaine concentration. Two different cooling rates were used. The effect of betaine on spermatozoal motility was positive at both cooling rates studied. Motility of frozen-thawed 2.5% betaine semen samples was significantly ( $p$  less than 0.001) higher than that of the control samples.

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